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(FILE 'HOME' ENTERED AT 15:32:54 ON 20 AUG 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 15:35:43 ON 20 AUG 2003

SEA PROTEASE

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33567 FILE ADISCTI  
1026 FILE ADISINSIGHT  
759 FILE ADISNEWS  
6076 FILE AGRICOLA  
510 FILE ANABSTR  
2113 FILE AQUASCI  
3371 FILE BIOBUSINESS  
1005 FILE BIOCOMMERCE  
77214 FILE BIOSIS  
15393 FILE BIOTECHABS  
15393 FILE BIOTECHDS  
25940 FILE BIOTECHNO  
10685 FILE CABA  
13339 FILE CANCERLIT  
90056 FILE CAPLUS  
2385 FILE CEABA-VTB  
220 FILE CEN  
975 FILE CIN  
2054 FILE CONFSCI  
85 FILE CROPB  
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717 FILE DDFB  
8835 FILE DDFU  
51761 FILE DGENE  
717 FILE DRUGB  
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10299 FILE DRUGU  
147 FILE DRUGUPDATES  
725 FILE EMBAL  
49298 FILE EMBASE  
30246 FILE ESBIOBASE  
2380 FILE FEDRIP  
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73 FILE FOREGE  
3927 FILE FROSTI  
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45666 FILE GENBANK  
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5803 FILE JICST-EPLUS  
185 FILE KOSMET  
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81 FILE MEDICONF  
69143 FILE MEDLINE  
236 FILE NIOSHTIC  
577 FILE NTIS  
5 FILE NUTRACEUT  
570 FILE OCEAN  
26947 FILE PASCAL  
29 FILE PCTGEN

819 FILE PHAR  
457 FILE PHARMAML  
13 FILE PHIC  
1328 FILE PHIN  
5834 FILE PROMT  
45 FILE RDISCLOSURE  
63797 FILE SCISEARCH  
102 FILE SYNTHLINE  
33986 FILE TOXCENTER  
41446 FILE USPATFULL  
1251 FILE USPAT2  
21 FILE VETB  
343 FILE VETU  
12781 FILE WPIDS  
12781 FILE WPINDEX  
L1 QUE PROTEASE  
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FILE 'CAPLUS, BIOSIS, MEDLINE, SCISEARCH, EMBASE, USPATFULL, TOXCENTER, ADISCTI, ESBIOBASE, PASCAL, BIOTECHNO, LIFESCI' ENTERED AT 15:38:47 ON 20 AUG 2003

L2 28248 S L1 AND BACILLUS  
L3 14 S L2 AND (KSM-KP43 OR KSM-KP1790 OR KSM-KP9860)  
L4 6 DUP REM L3 (8 DUPLICATES REMOVED)  
L5 1 S L2 AND ( PH 4-13 OR ISOELECTRIC 8.9-9.1)  
L6 841 S L2 AND (OLEIC ACID)  
L7 233 S L6 AND CASEIN  
L8 229 S L7 AND (PURIF? OR ISOLAT? OR CHARACT?)  
L9 229 DUP REM L8 (0 DUPLICATES REMOVED)

=> d 14 ibib ab 1-6

L4 ANSWER 1 OF 6 USPATFULL on STN  
ACCESSION NUMBER: 2003:30404 USPATFULL  
TITLE: Alkaline **proteases**  
INVENTOR(S):  
Hatada, Yuji, Mihara-shi, JAPAN  
Ogawa, Akinori, Haga-gun, JAPAN  
Kageyama, Yasushi, Haga-gun, JAPAN  
Sato, Tsuyoshi, Haga-gun, JAPAN  
Araki, Hiroyuki, Haga-gun, JAPAN  
Sumitomo, Nobuyuki, Haga-gun, JAPAN  
Okuda, Mitsuyoshi, Haga-gun, JAPAN  
Saeki, Katsuhisa, Haga-gun, JAPAN  
PATENT ASSIGNEE(S): Kao Corporation, Tokyo, JAPAN, 103-8210 (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003022351	A1	20030130
APPLICATION INFO.:	US 2001-985689	A1	20011105 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-355166	20001122
	JP 2001-114048	20010412
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	725	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to alkaline **proteases** having  
high specific activity oxidant resistance, as well as an enzyme having  
excellent detergency that is to be added to a detergent.

L4 ANSWER 2 OF 6 USPATFULL on STN  
ACCESSION NUMBER: 2002:126342 USPATFULL  
TITLE: Alkaline **protease**  
INVENTOR(S):  
Takaiwa, Mikio, Tochigi, JAPAN  
Okuda, Mitsuyoshi, Tochigi, JAPAN  
Saeki, Katsuhisa, Tochigi, JAPAN  
Kubota, Hiromi, Tochigi, JAPAN  
Hitomi, Jun, Tochigi, JAPAN  
Kageyama, Yasushi, Tochigi, JAPAN  
Shikata, Shitsuw, Wakayama, JAPAN  
Nomura, Masafumi, Wakayama, JAPAN  
PATENT ASSIGNEE(S): KAO CORPORATION, Tokyo, JAPAN, 103-8210 (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002064854	A1	20020530
APPLICATION INFO.:	US 2001-920954	A1	20010803 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-509814, filed on 6 Apr 2000, PENDING A 371 of International Ser. No. WO 1997-JP9804528, filed on 7 Oct 1997, UNKNOWN		

	NUMBER	DATE

PRIORITY INFORMATION: JP 1997-274570 19971007  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202  
NUMBER OF CLAIMS: 6  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 6 Drawing Page(s)  
LINE COUNT: 2016

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An alkaline **protease** having the following properties; a gene encoding the same; a microorganism producing the same; and washing compositions containing the same; (i) acting over a broad pH value range of 4 to 13 and achieving, at pH 6 to 12, 80% or more the activity at the optimum pH value; (ii) when treated at 40.degree. C. for 30 minutes, being stable over a pH value range of 6 to 11; (iii) having an isoelectric point of about 8.9 to 9.1; and (iv) having casein digesting activity that is not inhibited by oleic acid. The alkaline **protease** of the present invention is highly stable to various surface active agents and fatty acids, and exhibits high stability to oxidizing agents, and is therefore useful as an enzyme to be used in detergents for automatic dishwashers and laundry detergents, both containing bleaching components.

L4 ANSWER 3 OF 6 USPATFULL on STN  
ACCESSION NUMBER: 2002:88248 USPATFULL  
TITLE: Alkaline **protease**  
INVENTOR(S):  
Takaiwa, Mikio, Tochigi, JAPAN  
Okuda, Mitsuyoshi, Tochigi, JAPAN  
Saeki, Katsuhisa, Ichikai-machi, JAPAN  
Kubota, Hiromi, Ichikai-machi, JAPAN  
Hitomi, Jun, Ichikai-machi, JAPAN  
Kageyama, Yasushi, Ichikai-machi, JAPAN  
Shikata, Shitsuw, Wakayama, JAPAN  
Nomura, Masafumi, Wakayama, JAPAN  
PATENT ASSIGNEE(S): Kao Corporation, Tokyo, JAPAN (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6376227	B1	20020423
	WO 9918218		19990415
APPLICATION INFO.:	US 2000-509814		20000406 (9)
	WO 1998-JP4528		19981007
			20000406 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-274570	19971007
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Prouty, Rebecca E.	
ASSISTANT EXAMINER:	Rao, Manjunath	
LEGAL REPRESENTATIVE:	Oblon, Spivak, McClelland, Maier & Neustadt, P.C.	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 6 Drawing Page(s)	
LINE COUNT:	1874	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An alkaline **protease** having the following properties; a gene encoding the same; a microorganism producing the same; and washing compositions containing the same; (i) acting over a broad pH value range of 4 to 13 and achieving, at pH 6 to 12, 80% or more the activity at the optimum pH value; (ii) when treated at 40.degree. C. for 30 minutes,

being stable over a pH value range of 6 to 11; (iii) having an isoelectric point of about 8.9 to 9.1; and (iv) having casein digesting activity that is not inhibited by oleic acid. The alkaline **protease** of the present invention is highly stable to various surface active agents and fatty acids, and exhibits high stability to oxidizing agents, and is therefore useful as an enzyme to be used in detergents for automatic dishwashers and laundry detergents, both containing bleaching components.

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 1  
ACCESSION NUMBER: 2002:206496 CAPLUS  
DOCUMENT NUMBER: 137:17661  
TITLE: A novel species of alkaliphilic **Bacillus**  
that produces an oxidatively stable alkaline serine  
**protease**  
AUTHOR(S): Saeki, Katsuhisa; Hitomi, Jun; Okuda, Mitsuyoshi;  
Hatada, Yuji; Kageyama, Yasushi; Takaiwa, Mikio;  
Kubota, Hiromi; Hagiwara, Hiroshi; Kobayashi, Tohru;  
Kawai, Shuji; Ito, Susumu  
CORPORATE SOURCE: Tochigi Research Laboratories of Kao Corporation,  
Tochigi, Japan  
SOURCE: Extremophiles (2002), 6(1), 65-72  
CODEN: EXTRFI; ISSN: 1431-0651  
PUBLISHER: Springer-Verlag Tokyo  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB A novel gram-pos., strictly aerobic, motile, sporulating, and facultatively alkaliphilic bacterium designated **KSM-KP43** was isolated from a sample of soil. The results of 16S rRNA sequence anal. placed this bacterium in a cluster with **Bacillus** halmapalus. However, the level of the DNA-DNA hybridization of **KSM-KP43** with *B. halmapalus* was less than 25%. Moreover, the G + C contents of the genomic DNA were 41.6 mol% for **KSM-KP43** and 38.6 mol% for *B. halmapalus*. Because there were also differences in physiol. properties and cellular fatty acid compon. between the two organisms, we propose **KSM-KP43** as a novel species of alkaliphilic **Bacillus**. This novel strain produces a new class of **protease**, an oxidatively stable serine **protease** that is suitable for use in bleach-based detergents. The enzyme contained 640 amino acid residues, including a possible .apprx.200-amino-acid prepropeptide in the N-terminal and a unique stretch of .apprx.160 amino acids in the C-terminal regions (434-amino-acid mature enzyme with a calcd. mol. mass of 45,301 Da). The C-terminal half after the putative catalytic Ser255 and the contiguous C-terminal extension shared local similarity to internal segments of a membrane-assoccd. serine **protease** of a marine microbial assemblage and the serine **protease**/ABC transporter precursors of the slime mold *Dictyostelium discoideum*, and to the C-terminal half of a cold-active alk. serine **protease** of a psychrotrophic *Shewanella* strain.  
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2  
ACCESSION NUMBER: 2001:294345 CAPLUS  
DOCUMENT NUMBER: 135:73253  
TITLE: Crystallization and preliminary x-ray diffraction studies of a novel alkaline serine **protease** (KP-43) from alkaliphilic **Bacillus** sp.  
strain **KSM-KP43**  
AUTHOR(S): Nonaka, Tsuyoshi; Fujihashi, Masahiro; Kita, Akiko;  
Saeki, Katsuhisa; Ito, Susumu; Miki, Kunio  
CORPORATE SOURCE: Graduate School of Science, Department of Chemistry,  
Kyoto University, Sakyo-ku, Kyoto, 606-8502, Japan  
SCURCE: Acta Crystallographica, Section D: Biological

Crystallography (2001), D57(5), 717-718  
CODEN: ABCRE6; ISSN: 0907-4449

PUBLISHER: Munksgaard International Publishers Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB A novel alk. serine **protease** (KP-43) which belongs to a new class of the subtilisin superfamily was crystd. by the sitting-drop vapor-diffusion method with (NH4)2SO4 as precipitant. The crystals belonged to orthorhombic space group C2221, with unit-cell parameters a = 43.50, b = 110.4, and c = 168.9 .ANG.. The crystals diffracted x-rays beyond 1.9 .ANG. resoln. using Cu K.alpha. radiation from a rotating-anode generator and were suitable for high-resoln. crystal structure anal.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 1999:244766 CAPLUS  
DOCUMENT NUMBER: 130:293280  
TITLE: Cloning of gene for alkaline **protease** from **Bacillus** and detergent composition containing the alkaline **protease**  
INVENTOR(S): Takaiwa, Mikio; Okuda, Mitsuyoshi; Saeki, Katsuhisa; Kubota, Hiromi; Hitomi, Jun; Kageyama, Yasushi; Shikata, Shitsuw; Nomura, Masafumi  
PATENT ASSIGNEE(S): Kao Corporation, Japan  
SOURCE: PCT Int. Appl., 71 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9918218	A1	19990415	WO 1998-JP4528	19981007
W: AU, CN, ID, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9894579	A1	19990427	AU 1998-94579	19981007
AU 732369	B2	20010426		
EP 1029920	A1	20000823	EP 1998-947770	19981007
R: DE, DK, FR, GB, NL				
US 6376227	B1	20020423	US 2000-509814	20000406
US 2002064854	A1	20020530	US 2001-920954	20010803
PRIORITY APPLN. INFO.:			JP 1997-274570	A 19971007
			WO 1998-JP4528	W 19981007
			US 2000-509814	A1 20000406

AB Novel **Bacillus** strains **KSM-KP9860**, **KSM-KP43**, and **KSM-KP1790** are isolated from soil and used for the prodn. of alk. **protease**. The enzyme is active in broad pH ranges and remains >80% active (100 at pH optimum) in a pH ranges of pH 6-12,. It exhibits pI 8.9-9.1 and mol. wt. 43,000 by SDS-PAGE. Its casein-degrading activity is not inhibited by oleic acid. The enzyme is also stable in the presence of various surfactants, fatty acids, oxidizing agents and thus is useful for the prepn. of dish wash or laundry detergent. The genes encoding the alk. **protease** have been isolated from the 3 strains, resp.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 16 ibib ab 835-841

L6 ANSWER 835 OF 841 USPATFULL on STN  
ACCESSION NUMBER: 74:57903 USPATFULL  
TITLE: GRANULAR NON-DUSTING ENZYME PRODUCT FOR DETERGENT USE  
INVENTOR(S): Mostow, John Hinckley, Metuchen, NJ, United States  
PATENT ASSIGNEE(S): Stima, Joseph Frank, Edison, NJ, United States  
Colgate-Palmolive Company, New York, NY, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3853780		19741210
APPLICATION INFO.:	US 1972-216311		19720107 (5)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1969-864176, filed on 6 Oct 1969, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kendall, Ralph S.		
ASSISTANT EXAMINER:	Albrecht, Dennis L.		
LEGAL REPRESENTATIVE:	Stone, Robert L., Grill, Murray M., Sylvester, Herbert S.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
LINE COUNT:	480		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	Granular non-dusting product of high enzyme content for use in detergent composition. A powdered enzyme preparation is blended with soap and a sugar.		

L6 ANSWER 836 OF 841 USPATFULL on STN  
ACCESSION NUMBER: 74:49221 USPATFULL  
TITLE: PREPARATION OF FETA CHEESE  
INVENTOR(S): Efthymiou, Constantine John, 84-63 126TH St., Kew Gardens, L.I., NY, United States 11415

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3843801		19741022
APPLICATION INFO.:	US 1973-324760		19730118 (5)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1971-142415, filed on 11 May 1971, now abandoned which is a continuation-in-part of Ser. No. US 1968-776219, filed on 25 Oct 1968, now abandoned which is a continuation-in-part of Ser. No. US 1964-380637, filed on 6 Jul 1964, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Naff, David M.		
LEGAL REPRESENTATIVE:	Pailas, Themis C.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
LINE COUNT:	897		
AB	Feta cheese is prepared by a process involving adding during the step of acidifying the milk a combination of ripening agents comprising a rated amount of proteolytic lacto- <b>bacilli</b> to effect a controlled advanced degree of proteolysis associated with a creamy, soluble body and Streptococcus faecium stains of enterococci viable and active through the range of ripening parameters.		

L6 ANSWER 837 OF 841 USPATFULL on STN  
ACCESSION NUMBER: 73:54295 USPATFULL  
TITLE: PRODUCTION OF GRANULAR MIXTURES  
INVENTOR(S): Hussain, Ali Ghalib Mohammed, Elizabeth, NJ, United

PATENT ASSIGNEE(S): States  
Colgate-Palmolive Company, New York, NY, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3773671		19731120
APPLICATION INFO.:	US 1971-178800		19710908 (5)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1969-828938, filed on 29 May 1969, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Schulz, William E.		
LEGAL REPRESENTATIVE:	Herbert S. Sylvester et al.		
NUMBER OF CLAIMS:	3		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	504		
AB	Process for producing granular enzyme product which comprise mixing an aqueous slurry of powdered enzyme preparation with hydrated pentasodium tripolyphosphate while agitating.		

L6 ANSWER 838 OF 841 USPATFULL on STN  
ACCESSION NUMBER: 73:5197 USPATFULL  
TITLE: STAIN REMOVAL  
INVENTOR(S): Gray, Frederick William, Summit, NJ, United States  
PATENT ASSIGNEE(S): Colgate-Palmolive Company, New York, NY, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3714050		19730130
APPLICATION INFO.:	US 1969-829104		19690529 (4)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1968-711203, filed on 7 Mar 1968, now abandoned And Ser. No. US 1968-726571, filed on 3 May 1968, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weinblatt, Mayer		
LEGAL REPRESENTATIVE:	Sylvester; Herbert S., Grill; Murray M., Blumenkopf; Norman, Cornell; Ronald S., Corum; Thomas J., Miller; Richard N., Stone; Robert L.		
NUMBER OF CLAIMS:	18		
LINE COUNT:	814		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	A stain-removing dry composition containing sodium perborate, a proteolytic enzyme and MgSO <sub>4</sub> . The presence of the MgSO <sub>4</sub> gives superior stability on aging.		

L6 ANSWER 839 OF 841 USPATFULL on STN  
ACCESSION NUMBER: 72:4670 USPATFULL  
TITLE: STAIN REMOVAL  
INVENTOR(S): Gray, Frederick William, 14 Stockton Road, Summit, NJ, United States 07901

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3637339		19720125
APPLICATION INFO.:	US 1968-726571		19680503 (4)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1968-711203, filed on 7 Mar 1968		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weinblatt, Mayer		
LEGAL REPRESENTATIVE:	Sylvester; Herbert S., Grill; Murray M., Blumenkopf;		

Norman, Cornell; Ronald S., Corum; Thomas J., Miller;  
Richard N., Stone; Robert L.

NUMBER OF CLAIMS:

21

LINE COUNT:

667

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Composition for removing stains from fabrics, including, an enzyme, a per-compound, and an activator for the perborate.

L6 ANSWER 840 OF 841 TOXCENTER COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:663476 TOXCENTER

COPYRIGHT: Copyright 2003 ACS

DOCUMENT NUMBER: CA13801007901W

TITLE: Compn. including **Bacillus** megaterium for removal of fats, oils and grease and application from grease traps

AUTHOR(S): Tisinger, Jessi Lind; Paone, Domenic A.; Leder, Jonathan; Drahos, David J.

PATENT INFORMATION: WO 2002094181 A2 28 Nov 2002

SOURCE: (2002) PCT Int. Appl., 34 pp.

CODEN: PIXXD2.

COUNTRY: UNITED STATES

DOCUMENT TYPE: Patent

FILE SEGMENT: CAPLUS

OTHER SOURCE: CAPLUS 2002:905724

LANGUAGE: English

ENTRY DATE: Entered STN: 20021224

Last Updated on STN: 20021231

AB The invention discloses a Gram-pos. microorganism, **Bacillus** megaterium that effectively and efficiently degrades fats, oils and grease. A compn. comprising said microorganism and a method for degrading fatty acids and grease are also disclosed. Availability of glycerol to the biodegrading microorganism was discovered to enhance biodegrdn. **Bacillus** megaterium strain SB3112, having the characteristics of ATCC deposit no. PTA-3142. Enzymes are selected from the group consisting of **protease**, .amylase, lipase and cellulase.

L6 ANSWER 841 OF 841 PASCAL COPYRIGHT 2003 INIST-CNRS. ALL RIGHTS RESERVED. on STN

ACCESSION NUMBER: 1993-0283591 PASCAL

TITLE (IN ENGLISH): New detergent mechanism using cellulase revealed by change in physicochemical properties of cellulose

AUTHOR: MURATA M.; HOSHINO E.; YOKOSUKA M.; SUZUKI A.

CORPORATE SOURCE: Kao Corp., Household Products Research Laboratories, Wakayama 640, Japan

SOURCE: JAOCS - Journal of the American Oil Chemists' Society, (1993), 70(1), 53-58, 17 refs.

DOCUMENT TYPE: Journal

BIBLIOGRAPHIC LEVEL: Analytic

COUNTRY: United States

LANGUAGE: English

AVAILABILITY: INIST-204, 354000038438860080

AB Sebum in naturally soiled cotton undershirt and **oleic acid** in artificially soiled cotton cloth, which entered interfiber space in the interior of cotton fibers were easily removed by alkaline cellulase from **Bacillus** sp., but only with difficulty by commonly used detergent ingredients such as surfactant and **protease**. Adsorption isotherms and the rate of hydrolysis of alkaline cellulase against insoluble cellulose powders revealed that the lower the relative crystallinity of cellulose powder, the more adsorptive alkaline cellulase became and the more hydrolysis was promoted.